



Atty. Docket No.: 4231/2053

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Liew, Choong-Chin  
Serial No.: 10/803,737  
Filed: March 18, 2004  
Entitled: Methods for the Detection of Brain-Specific Gene Transcripts in Blood and Uses Thereof

Examiner: Not Yet Assigned

Group Art Unit: 1653

Conf. No.: 8043

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a**

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Kathleen Williams

Name of Person Mailing Paper

[Signature]  
Signature of Person Mailing Paper

**Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§§ 1.56, 1.97 AND 1.98**

Dear Sir:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicant submits this Information Disclosure Statement pursuant to 37 CFR §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office.

The attached Form PTO-1449 contains a listing of the cited documents. This application was filed after June 30, 2003, and copies of U.S. patents and U.S. patent applications are not required and are not enclosed.

Copies of all foreign patent documents and non-patent literature listed on the attached Form PTO-1449 have been previously submitted to the United States Patent and Trademark Office on an IDS or a supplemental IDS filed in the parent application, serial number 10/268,730.

Pursuant to CFR § 1.97(b)(3), because this Statement is being submitted before the first Office Action on the merits, no fee is required.

Attorney Docket: 4231/2053  
U.S. Serial No. 10/803,737

Applicant does not intend to represent that any of the documents submitted herein are material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicant respectfully requests that the documents submitted herein be considered and made of record in this application.

Respectfully submitted,

Date:

1-10-2005

Barbara A. Palmer (34, 614) for  
Name: Name: Kathleen Williams  
Registration No.: 34,380 *Kathleen Williams*  
Customer No.: 29933  
Palmer & Dodge LLP  
111 Huntington Avenue  
Boston, MA 02199-7613  
Tel: 617-239-0100

USPTO Form 1449 Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT				Attorney Docket No. 4231/2053		Serial No. 10/803,737		
				Applicant(s): Choong-Chin Liew				
				Filing Date: March 18, 2004		Group: 1653		
U.S. PATENT DOCUMENTS								
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
	1	5,352,775A	10/04/1994	Albertsen et al.	536	23.1	08/08/1991	
	2	5,837,449	11/17/1998	Monia, et al.	435	6	10/28/1994	
	3	5,853,996	12/29/1998	Mordechai, et al.	435	6	04/17/1997	
	4	5,882,864	03/16/1999	An et al.	435	6	07/31/1996	
	5	5,942,385	08/24/1999	Hirth	435	4	03/21/1996	
	6	6,048,709	04/11/2000	Falb	435	69.1	03/28/1997	
	7	6,124,433	09/26/2000	Falb, et al.	530	350	10/06/1997	
	8	6,190,857	2/20/01	Ralph et al.				
	9	6,218,529	4/17/01	An et al.				
	10	6,251,590	06/26/2001	Schweighoffer, et al.	435	6	03/24/1998	
	11	6,277,574	08/21/2001	Walker et al.	435	6	04/09/1999	
	12	6,479,263	11/12/2002	Slawin, et al.	435	91.2	04/11/1997	
	13	6,486,299	11/26/2002	Shimkets	530	350	09/28/1998	
	14	6,525,185	02/25/2003	Fan, et al.	536	23.1	05/03/1996	
FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation	
							YES	NO
	15	DE 44 35 919 C	07 DEC 1995	GERMANY	C12N	15/63		
	16	EP 0 534 640 A	31 MAR 1993	EPO	C12Q	1/68		
	17	JP 09 187299	22 JUL 1997	JAPAN	C12Q	1/68		
	18	WO 98/18906	07 MAY 1998	WIPO	C12N	5/06		
	19	WO 98/24935	11 JUN 1998	WIPO	C12Q	1/68		
	20	WO 98/33942	06 AUG 1998	WIPO	C12Q	1/68		
	21	WO 98/49342	05 NOV 1998	WIPO	C12Q	1/68		
EXAMINER					DATE CONSIDERED			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.								
**Copies of references not provided at the time of this submission.								

USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. 4231/2053	Serial No. 10/803,737
INFORMATION DISCLOSURE STATEMENT		Applicant(s): Choong-Chin Liew	
		Filing Date: March 18, 2004	Group: 1655
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)			
	22	Campbell, C. et al., "Assesment of Normal Variability in Peripheral Blood Gene Expression," <i>Disease Markers</i> 18:201-206 (2002)	
	23	Claudio, J.O. et al. (1998) <i>Genomics</i> 50:44-52	
	24	Chelly J et al. (1989). <i>Proc. Nat. Acad. Sci. USA.</i> 86:2617-2621	
	25	Chelly J et al. (1988). <i>Nature</i> 333:858-860.	
	26	Drews J & Ryser S (1997). <i>Nature Biotech.</i> 15:1318-9.	
	27	Ferrie RM et al. (1992). <i>Am. J. Hum. Genet.</i> 51:251-62	
	28	Fu D-J et al. (1998). <i>Nat. Biotech</i> 16: 381-4.	
	29	Gala JL et al. (1998). <i>Clin. Chem.</i> 44(3):472-81.	
	30	Geisterfer-Lowrance AAT et al. (1990). <i>Cell</i> 62:999-1006.	
	31	Groden J et al. (1991). <i>Cell</i> 66:589-600.	
	32	Jandreski MA & Liew CC (1987). <i>Hum. Genet.</i> 76:47-53.	
	33	Jin O et al. (1990). <i>Circulation</i> 82:8-16	
	34	Kimoto Y (1998). <i>Mol. Gen. Genet</i> 258:233-239.	
	35	Koster M et al. (1996). <i>Nat. Biotech</i> 14: 1123-8	
	36	Liew & Jandreski (1986). <i>Proc. Nat. Acad. Sci. USA.</i> 83:3175-3179	
	37	Liew CC et al. (1990). <i>Nucleic Acids Res.</i> 18:3647-3651.	
	38	Liew CC (1993). <i>J Mol. Cell. Cardiol.</i> 25:891-894	
	39	Liew CC et al. (1994). <i>Proc. Natl. Acad. Sci. USA.</i> 91:10645-10649	
	40	Liew et al. (1997). <i>Mol. and Cell. Biochem.</i> 172:81-87.	
	41	Niimura H et al. (1998). <i>New Eng. J. Med.</i> 338:1248-1257	
EXAMINER		DATE CONSIDERED	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.</p> <p>**Copies of references not provided at the time of this submission.</p>			

USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office  <b>INFORMATION DISCLOSURE STATEMENT</b>				<b>Attorney Docket No.</b> 4231/2053		<b>Serial No.</b> 10/803,737	
				<b>Applicant(s):</b> Choong-Chin Liew			
				<b>Filing Date:</b> March 18, 2004		<b>Group:</b> 1633	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation
							YES NO
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>							
	42	Ogawa M (1993). <i>Blood</i> 81:2844-2853					
	43	Riccie et al. (1997) <i>Neuroscience Letters</i> 229:130-134					
	44	Santoro IM & Groden J (1997). <i>Cancer Res.</i> 57:488-494.					
	45	Yuasa T et al. (1998). <i>Japanese J. Cancer Res.</i> 89:879-882					
	46	Yoshikai et al., "Genomic Organization of the Human Amyloid Beta-Precursor Gene" <i>Gene</i> 87:257-263 (1990)					
	47	International Search Report PCT/CA 00/00005 dated 07/12/2000					
	48	GENBANK AC:V00565, March 1995; Bell et al.: "Sequence of the Human Insulin Gene" (XP002141055)					
	49	GENBANK AJ:003147, December 1998, Bernot et al., "A Transcriptional Map of the FMF Region" (XP002141057)					
	50	GENBANK AC:M73548, January 1995, Joslyn et al., "Identification of Deletion Mutations and Three New Genes at the Familial Polyposis Locus" (XP002141058)					
	51	GENBANK AC:X52889, September 1993, Liew, "Complete Sequence and Organization of the Human Cardiac Beta-Myosin Heavy Chain Gene" (XP002141056)					
	52	GENBANK AC:M54947, April 1993, Seidman et al., "Molecular Studies of the Atrial Natriuretic Factor Gene" (XP002141054)					
<b>EXAMINER</b>					<b>DATE CONSIDERED</b>		
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.</small>							
<small>**Copies of references not provided at the time of this submission.</small>							



Serial No 10/803,737 File No 4231/2053 By KMW/rh

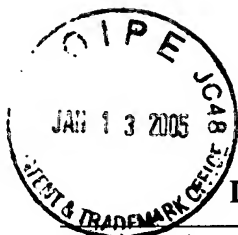
Applicant(s): Liew

Title: Methods for the Detection of Brain-Specific Gene Transcripts...

The Following, DUE ndel in the USPTO, was received by the PTO Mail Room on the date stamped hereon

- |                                                                                                           |                                                                   |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <input type="checkbox"/> Cert. of Mailing by Express Mail (37 CFR 1.10)                                   | <input type="checkbox"/> Response to Notice to File Missing Parts |
| Express Mail Label No _____                                                                               | <input type="checkbox"/> Copy of Part 2 of NFMP                   |
| <input checked="" type="checkbox"/> Cert. of Mailing under 37 CFR 1.8(a)                                  | <input type="checkbox"/> Diskette Containing Nucleotide and/or    |
| <input type="checkbox"/> Patent Application (_____ total pgs)                                             | Amino Acid Sequence Listing                                       |
| <input type="checkbox"/> <input type="checkbox"/> Provisional or <input type="checkbox"/> Non-Provisional | <input type="checkbox"/> Priority Document(s) # _____             |
| ( pgs) Specification ( pgs) Abstract,                                                                     | <input type="checkbox"/> Amendment/Response                       |
| ( pgs) Claims (_____ # claims)                                                                            | <input type="checkbox"/> Petition for Extension of Time (x2)      |
| <input type="checkbox"/> New Patent Application Transmittal                                               | <input type="checkbox"/> Check in the amount of _____             |
| <input type="checkbox"/> Provisional Patent Application Cover Sheet                                       | Check # _____                                                     |
| <input type="checkbox"/> Declaration and Power of Attorney                                                | <input type="checkbox"/> Transmittal of Formal Drawings           |
| <input type="checkbox"/> Application Data Sheet                                                           | <input type="checkbox"/> Motion/Opposition/Reply                  |
| <input type="checkbox"/> Drawings _____ Sheet(s) (FIGS _____)                                             | <input type="checkbox"/> Request for Cont'd Examination (RCE)     |
| <input type="checkbox"/> <input type="checkbox"/> Formal or <input type="checkbox"/> Informal             | <input type="checkbox"/> Notice of Appeal                         |
| <input type="checkbox"/> Assignment of _____                                                              | <input type="checkbox"/> Appeal Brief (x3)                        |
| <input type="checkbox"/> Recordation Cover Sheet Form PTO-1595                                            | <input type="checkbox"/> Issue Fee Transmittal                    |
| <input checked="" type="checkbox"/> Information Disclosure Statement                                      | <input checked="" type="checkbox"/> Transmittal Letter (x2)       |
| <input checked="" type="checkbox"/> Form PTO 1449 and Copies of Cited References                          |                                                                   |
| <input type="checkbox"/> Other _____                                                                      |                                                                   |

MAILED 1-10-2005



Atty. Docket No.: 4231/2053

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Liew, Choong-Chin  
Serial No.: 10/803,737  
Filed: March 18, 2004  
Entitled: Methods for the Detection of Brain-Specific Gene Transcripts in Blood and Uses Thereof

Examiner: Not Yet Assigned

Group Art Unit: 1653

Conf. No.: 8043

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a**

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Kathleen M. Williams

Name of Person Mailing Paper

[Signature]  
Signature of Person Mailing Paper

**Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**TRANSMITTAL LETTER**

Enclosed for filing in the above-identified patent application, please find the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449; and
3. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any fees to Deposit Account No. 16-0085, Reference 4231/2053. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: 1-10-2005

[Signature]  
Name: Kathleen M. Williams  
Registration No.: 34,380  
Customer No.: 29933  
Palmer & Dodge LLP  
111 Huntington Avenue  
Boston, MA 02199-7613  
Tel: 617-239-0100